AMENDMENTS TO THE CLAIMS

1. (Original) A golf ball having the diameter D of 43.0 mm or greater and 50.0 mm or less, which comprises a core and a cover having the specific gravity of 1.05 or greater and 1.50 or less, with the moment of inertia of said golf ball being equal to or greater than 85.0 gcm^2.

2. (Original) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than 88.0 gcm^2.

3. (Original) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$

4. (Original) The golf ball according to claim 2 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$

5. (New) The golf ball according to claim 1 wherein the diameter D is 43.5 mm or greater and 48.0 mm or less.

6. (New) The golf ball according to claim 1 wherein the diameter D is 44.0 mm or greater and 47.0 mm or less.

7. (New) The golf ball according to claim 1 wherein the specific gravity is 1.10 or greater and 1.45 or less.

8. (New) The golf ball according to claim 1 wherein the specific gravity is 1.15 or greater and 1.40 or less.

9. (New) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than 86.0 gcm^2 and equal to or less than 150 gcm^2.

10. (New) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than 88.0 gcm^2 and equal to or less than 130 gcm^2.

11. (New) The golf ball according to claim 5 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$

12. (New) The golf ball according to claim 6 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6 \qquad (I).$$